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Claims

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1. An electro-optical device comprising pixels, each pixel comprising:
an electroluminescence element and a liquid crystal element.
2. The electro-optical device according to Claim 1, further comprising
switching elements.
3. An electro-optical device comprising a layer including an
electroluminescence element and a layer including a liquid crystal
element which are placed above a layer including switching elements.
4. The electro-optical device according to Claim 3, the layer including
the liquid crystal element being placed above the layer including the
electroluminescence element.
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5. The electro-optical device according to any of Claims 1 to 4, the
switching elements having a function for controlling at least one of the
electroluminescence element and the liquid crystal element.
6. The electro-optical device according to any of Claims 1 to 5, the
liquid crystal element functioning as a reflective liquid crystal
element.
7. The electro-optical device according to any of Claims 1 to 6, at
least the luminance of the electroluminescence element being controlled
in a dark place while at least the luminance of the liquid crystal
element being controlled in a bright place.
8. The electro-optical device according to any of Claims 1 to 7, one
electrode of the electroluminescence element and one electrode of the
liquid crystal display element being common.
9. The electro-optical device according to Claim 8, the other electrode
of the electroluminescence element and a reflector of the liquid crystal
display element being common.

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SUB Q3 10. The electro-optical device according to any of Claims 2 to 5, the switching elements being controlled to be in either an ON state or an OFF state.

11. The electro-optical device according to Claim 1 or 2, each pixel including sub-pixels and the sub-pixels including the electroluminescence element, the liquid crystal element, and the switching elements.

12. The electro-optical device according to Claim 11, the switching elements being controlled to be in either an ON state or an OFF state.

13. The electro-optical device according to Claim 12, a gray level being set as the function of the average luminance of the pixel.

14. The electro-optical device according to Claim 1 or 2, each pixel including a static RAM.

15. The electro-optical device according to any of Claims 11 to 13, each sub-pixel including a static RAM.

16. The electro-optical device according to Claim 14 or 15, scanning being performed when displayed data is changed.

17. The electro-optical device according to any of Claims 2 to 16, the switching elements including TFTs.

18. The electro-optical device according to Claim 17, the TFTs being polycrystalline silicon TFTs produced by a low-temperature process of 600°C or less.

SUB Q4 19. The electro-optical device according to any of Claims 1 to 18, a luminescent layer of the electroluminescence element including an organic material.

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20. The electro-optical device according to any of Claims 1 to 19, the luminescent layer of the electroluminescence element including an organic polymer material.

21. The electro-optical device according to Claim 6, the liquid crystal of the liquid crystal element being a super twisted nematic liquid crystal having a twist angle of 180 degrees or more.

22. An electronic apparatus comprising the electro-optical device according to any one of Claims 1 to 21 as a display unit.

23. A method for driving an electro-optical device including a plurality of types of electro-optical element, comprising:

setting a usage condition of the plurality of types of electro-optical element on the basis of the result obtained by measuring a predetermined physical quantity.

24. The method according to Claim 23, the plurality of types of electro-optical element including a luminescent element and a liquid crystal element.

25. A method for driving an electronic apparatus including a plurality of types of electro-optical element, comprising:

a first step of measuring a predetermined physical quantity; and

a second step of setting a usage condition of the plurality of types of electro-optical element on the basis of the result obtained by measuring the predetermined physical quantity in the first step.

26. The electronic apparatus according to Claim 22, further comprising means for measuring light intensity.

27. The electronic apparatus according to Claim 26, further comprising

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means for providing a signal for setting each usage condition of the liquid crystal element and the organic electroluminescence element to the electro-optical device on the basis of the light intensity measured by the means for measuring light intensity.